

## **Art and Science of Teaching**

### ***Learning Outcomes for the four-day training***

- Gain an awareness of the common language of instruction
- Master essential instructional routines such as providing clear learning goals and defining levels of proficiency
- Acquire strategies for delivering new content, and practicing them to deepen understanding
- Discover the importance of applying knowledge by generating and testing hypotheses
- Learning important teacher behaviors for engaging students and building strong relationships
- Ensure high expectations for all students

### ***Outline of information – the Marzano Compendium of Instructional Strategies:***

- Understand the instructional framework
  - Overarching segments of the instructional framework and the elements within the segment
    - Feedback
      - Providing and communicating clear learning goals
        - Providing Scales and Rubrics
        - Tracking Student Progress
        - Celebrating Success
      - Assessment
        - Informal Assessments of the Whole Class
        - Formal Assessments of Individual Students
    - Content
      - Direct instruction lessons
        - Chunking Content
        - Processing Content
        - Recording and Representing Content
      - Practicing and deepening lessons
        - Structured Practice Sessions
        - Examining Similarities and Differences
        - Examining Errors in Reasoning
      - Knowledge application lesson
        - Engaging Students in Cognitively Complex Tasks
        - Providing Resources and Guidance
        - Generating and Defending Claims
      - Strategies that Appear in All Types of Lessons
        - Previewing
        - Highlighting Critical Information
        - Reviewing Content
        - Revising Knowledge
        - Reflecting on Learning

- Purposeful Homework
  - Elaborating on Information
  - Organizing Students to Interact
- Context
  - Engagements
    - Noticing When Students are Not Engaged and Reacting
    - Increasing Response Rates
    - Using Physical Movement
    - Maintaining a Lively Pace
    - Demonstrating Intensity and Enthusiasm
    - Presenting Unusual Information
    - Using Friendly Controversy
    - Using Academic Games
    - Providing Opportunities for Students to Talk About Themselves
    - Motivating and Inspiring Students
  - Rules and Procedures
    - Establishing Rules and Procedures
    - Organizing the Physical Layout of the Classroom
    - Demonstrating Withitness
    - Acknowledging Adherence to Rules and Procedures
  - Relationships
    - Using Verbal and Nonverbal Behaviors that Indicate Affection for Students
    - Understanding Students' Backgrounds and Interests
    - Displaying Objectivity and Control
  - Communicating High Expectations
    - Demonstrating Value and Respect for Reluctant Learners
    - Asking In-Depth Questions of Reluctant Learners
    - Probing Incorrect Answers with Reluctant Learners